

PESEK, Jiri, MUDr.; PESEK, Jaroslav, MUDr.; technika spoluprace:  
Vera Dolezalova a Zdenek Nedbal

Pathogenesis of some post-influenza complications in gynecology.  
Cesk. gyn. 36 no.3:150-163 1957.

1. III gynekologicko-porodnicke oddeleni fakultni nemocnice v  
Brne: prednosta prim. MUDr. Antonin Cernoch, Mikrobiol. ustanov  
KUNZ v Brns: prednosta prof. MUDr. Vaclav Tomasek. K sedenatinam  
priprave MUDr. J. Jerie.

(INFLUENZA, compl.  
gynecol. dis. (Cs))  
(GYNECOLOGICAL DISEASES, etiol. & pathogen.  
influenza (Cs))

EXCEPPTA MEDICA Sec 7 Vol 13/11 Pediatrics Nov '50  
3151. INCIDENCE OF ANTIBODIES AGAINST POLIOVIRUSES IN THE POPULA-  
TION OF SLOVAKIA PRIOR TO THE 1957 VACCINATION SCHEME -  
Pešek J., Inst. of Virol., Czechoslovak Acad. of Scis. Bratislava - J. HYG.  
EPIDEM. MICROBIOL. IMMUNOL. (Prague) 1958, 2/4 (443-447) Graphs 2  
Tables 4  
Fifty per cent of children had antibodies against type-1 viruses at 3-6 yr. and  
against types 2 and 3 at 3 yr. Šimon - Prague (L. 8, 7, 17)

BLAHL, C.; VONSKY, J.

The reduction of oral poliovirus circulation following vaccination with the live vaccine. A new factor in the ecology of enteric viruses? J. Hyg. Epidemiol. 1984; 8: 205-213.

• Virological Laboratory, Epidemiological Department, regional Hygiene and Epidemiology Station, Brno.

CZECHOSLOVAKIA

CHIELAROVA, M., CHIELAR, M.; PESEK, J.; 2nd. and 1st. Institute of medical Chemistry and 1st. Surgical Clinic, Medical Faculty, Charles University, (II. a I. Ustav Lekarske Chemie a I. Chirurgicka Klinika Lek. Fak. KU), Prague.

"The Effect of Insulin on Esterolytic Activity of Human Lung Tumor Tissue."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 86-89

Abstract: Tumor material was collected from 28 patients. Insulin reduces esterolytic activity at pH 6.5 - 7: at pH 7.5 to 9.5 insulin has no effect. Activity of healthy human lung tissue is not influenced by insulin. The influence on tumor tissue persists even at low temperatures, and is influenced by physostigmine. 1 Figure, 3 Western, 2 Czech references. Submitted at "16 Days of Physiology" at Kosice, 27 Sep 65.

1/1

- 133 -

CZECHOSLOVAKIA

PESEK, J.

Natural Science Faculty of Charles University (Prirodovedec)  
Fakulta University Karlovy), Prague

Prague, Casopis pro mineralogii a geologii, No 3, 1964, pp 31-  
426

"Geology of the Northern Part of the Plzen Basin."

FESEK, Jiri

Geology of the northern section of the Elbe Basin. - 1a  
min. geol. 9 no. 1.31-427 '68.

1. Faculty of Natural Sciences of the Charles University. - 1968  
Submitted January 3, 1968.

PESEK, J.; VOBECKY, J.

Attempt to check the effectiveness of vaccination against poliomyelitis as a current antiepidemic practice. J. hyg. epidem. (Praha) 3 no.3:351-352 '64

1. Virological Laboratory, Epidemiological Department, Regional Hygiene and Epidemiology Station, Brno.

3

CHECOSLOVAKIA

HACHU, M., MD; VOBECKY, J., MD; PESEK, J., MD.

1. Infectious Ward of the Faculty Children's Hospital  
(Infekcni oddeleni fakultni detske nemocnice),  
Brno; 2. Krajska Hygiene-Epidemiological Station  
(Krajska hygienicko-epidemiologicka stanice),  
Brno

Prague, Prakticky lekar, No 11, 1963, pp 409-412

"Methods of Determination of the Etiology of Paralytic  
Patients."

VOBECKY, J.; PESEK, J.; MACKU, M.; technicka spoluprace DOLEZALOVA, V.

Our experience with the use of a live vaccine against infantile paralysis during the spring of 1960. Cesk. epidem. 10 no.6:404-410 N '61.

1. Krajska hygienicko-epidemiologicka stanice v Brne.

(POLIOMYELITIS immunol) (VACCINATION in inf & child)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

PESEK, J.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012402

ZEMIA, J; PESEK, J.

Titration of polioviruses in human amnion cells, using the  
colour test on plastic panels. Acta virol. Engl. Ed., 3:253-257  
O '59.

1. Institute of Virology, Czechoslovak Academy of Sciences,  
Bratislava.

(POLIOMYELITIS VIRUS)  
(AMNION)

EXCERPTA MEDICA Sec 8 Vol 12/7 Neurology July 59

3191. INCIDENCE OF ANTIBODIES AGAINST POLIOVIRUSES IN THE POPULATION OF SLOVAKIA PRIOR TO THE 1957 VACCINATION SCHEME -  
Pešek J. Inst. of Virol., Czechoslovak Acad. of Scis, Bratislava -  
J. HYG. EPIDEM. MICROBIOL. IMMUNOL. (Prague) 1958, 2/4 (443-447)  
Graphs 2 Tables 4

Fifty per cent of children had antibodies against type 1 viruses at 3-6 yr. and  
against types 2 and 3 at 3 yr. of age.

Šimon - Prague (L, 8, 7, 17)

PESEK, J.

GEOGRAPHY & GEOLOGY

Vol. 63, no. 3, 1958.

Pesek, J. Two new occurrences of potholes and a few notes on their genesis.  
p. 205.

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1,  
Jan. 1959.

PESEK, J., with the technical assistance of H. Tovarysova

Incidence of antibodies against polioviruses in the population of Slovakia prior to the 1957 vaccination scheme. J. Hyg. Epidem., Praha 2 no. 4:443-447 1958.

1. Virologicky ustav CsAV, Mlynska Dolina, Bratislava-Czechoslovakia  
(for Pesek).

(POLIOMYELITIS, immunol.  
antibody titer before mass vacc. in Czech.)

PESEK, Jiri

"Geological atlas of Poland, stratigraphic and facies problems"  
by J. Milewicz, K. Pawłowska. Reviewed by Jiri Pesek. Czas min  
geol 8 no.3:333 Jl '63.

PESEK, Jiri

"Stratum and nonstratum flora in Upper Silesian Namur A and B"  
by V. Havlena. Reviewed by Jiri Pesek. Cas min geol 8 no.3:  
324 J1 '63.

DVORAK, Jaroslav; MUSIL, Rudolf; SEKANINA, Josef; ZUREK, Vladimir;  
TRACHTULEC, Jan; VODA, Oldrich; CHLUPAC, Ivo; HOMOLA, Vladimir;  
PESEK, Jiri; ZAK, Lubor; GASPARIK, Jan

Activities of the branches of the Czechoslovak Society for  
Mineralogy and Geology in Brno, Most, Olomouc, Ostrava, Praha  
and Zilina. Cas min geol 7 no.3:385-392 '62.

PILSKY, K.

Roofing cardboard and its insulating properties. p. 111.  
A fatal accident in a cellulose factory. p. 14.

Vol. 10, No. 9, Sept. 1955  
PAPÍR A SLIBIČSA  
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress  
Vol. 5, No. 1, August 1956

PESEK, Karel, Jr.

Surface charges of glass during fire polishing. Sklar a keramik  
14 no. 2846-43 F 164

1. Výroba počítačových a kalkulačkových skla, r.o., Nový Bor.

PESEK, Karel, inz.

Processes occurring during the firing of painted glass.  
Sklar a keramik 13 no.11:296-298 N°63.

1. Výroba panvi a vyvoj užitkového skla, n.p., Nový Bor.

PESHEK, Ivudok [Penek, Ludok]

Experiment in photography. Sov.foto 20 no.2:41-42  
F '60. (MIRA 13:7)  
(Czechoslovakia--Photography)

PESEK, M.

Postoperative exudation '... knee joint. Rozhl. chir. 29 no.9:  
355-360 1950. (CML 20:7)

1. Of the First Surgical Clinic of Charles University (Head--Prof.  
Arnold Jirasek, M.D.), Prague.

LICHTENBERG, J.; PESEK, M.

Experimental studies on shock. Rozhl. chir., Praha 30 no.7:  
426-432 1951. (CIML 21:1)

1. Of the First Surgical Clinic (Head -- Prof. A. Jirasek, M.D.)  
of Charles University.

PESEK, M.

Effect of procaine on pain and postoperative complications. Rozhl.  
chir., Praha 30 no.7:433-442 1951. (CIML 21:1)

1. Of the First Surgical Clinic (Head -- Prof. A. Jirasek, M.D.)  
of Charles University.

LICHTENBERG, J.; PESEK, M.

Experimental studies of shock. Roshl. chir., 31 no. 6-8:174-179  
1952. (CIML 23:3)

1. Of the First Surgical Clinic (Head--Prof. Arnold Jirasek, M. D.)  
of Charles University, Prague.

LICHTENBERT, Jaroslav, Doc. Dr.; PRSEK, Miroslav, as. Dr

Direct resuscitation of the brain by intracarotid transfusion of oxygenated blood. Rozhl.chir. 34 no.3:156-161 Mar 55

1. Z chirurgicke kliniky VLA, Hradec Kralove, a z I. chirurgicke kliniky Karlovy university Přednosti: prof. Dr A.Jirasek

(BLOOD TRANSFUSION, administration

intracarotid transfusion with oxygenated blood in deficient blood supply to brain in various dis.)

(BRAIN, blood supply

insuff., intracarotid transfusion of oxygenated blood in various dis.)

PESEK, M.

Anatomical and physiological relations of the foramen magnum. Rozhl. chir. 35 no.11:691-696 Oct 56.

l. Z I. chirurgicke kliniky Karlovy university v Praze. -

Prednosta prof. dr. Arnold Kirasek.

(OCCIPITAL BONE

occipital magnum, anat. & physiol. relations (Cs))

BARTOS, Jiri; BURK, Miroslav; ~~BLAHA, Antonin~~; ELIKA, Bořivoj

Experimental work on the replacement of dura mater by amnion.  
Cesk. sur. 20 no. 4:231-46 June 57.

J. I. chirurgicka klinika, trenerem akademik prof. Dr. J. Bartos  
M. vys. lecicky ustan. FU, vedoucim akademik Jan Wol'  
(TRANSLATOR, translat.)

exper. replacement of dura mater in animal. (x-1)  
(DURA MATER, SURG.)  
exper. replacement with amnion in animal. (x-2)

PESEK, Miroslav, AS., Dr.

Rare complication during nailing of femoral neck fracture.  
Acta chir. orthop. traum. czech. 24 no.2:81-87 Mar 57.

1. Chirurgicka klinika KU, prednosta akademik Arnold Jirasek.  
(FEMUR NECK, fract.

surg., extra-articular nailing, with penetration  
of bent wire into pelvis (Cx))

LICHTENBERG, J.; PESEK, M.; NEUMANN, J.

Unusual case of cardiac compression & simultaneous mitral stenosis.  
Rozhl. chir. 36 no.9:620-622 Sept 57.

l. I Chir. klin. KU, prednosta akad. Arnild Jirasek. IV int. klin.  
KU; prednosta prof. B. Prusik.

(PERICARDITIS, ADHESIVE, compl.  
mitral stenosis (Cz))  
(MITRAL STENOSIS, compl.  
adhesive pericarditis (Cz))

JICINSKA, Eva; PESEK, Milan

Fermentation of yogurt with the addition of jam. Prum potraviny  
15 no.4:189-190 Ap '64.

1. Prumysl lecna výroby National Enterprise, Strakonice  
(for Jicinska). 2. Higher School of Agriculture, České Budě-  
jovice (for Pesek).

PESEK, M.

"Radiation chemistry of polymeric systems" by A. Chapiro.  
Reviewed by M. Peseck. Jaderma energie 10 no. 2:46 F '64.

PESEK, M.

"Large radiation sources in industry." Reviewed by M. Pesek.  
Jaderna energie '7 no.9:301 S '61.

LICHTENBERG, J.; PESEK, M.; RIHA, J.

Surgical contribution to cancer of the thoracic esophagus, Rozhl.  
chir. 41 no.5:342-346 My '62.

1. I chirurgicka klinika KU v Praze, prednosta prof. dr. J.Pavrovsky  
III. chirurgicka klinika KU v Praze, prednosta doc. dr. O.Vaneckova  
Chirurgicka klinika lek. fak. KU v Hradci Kralove, prednosta prof.  
dr. J.Prochazka.  
(ESOPHAGUS neopl)

PESEK, Miroslav, inz.; RADL, Vladimir

Radiation stability of the styrene divinylbenzene type strong  
basic anion-exchanging substances. Chem zvesti 18 no.7:502-511  
'64.

1. Research Institute of Synthetic Resins and Lacquers, Pardubice,  
S.K. Neumana 1316.

PESEK, Miroslav

How to prolong the service life of tires. Siln doprava 11  
no.8:28 Ag '63.

1. Moravskoslezske elekrotechnicke zavody, n.p., Postrelnov.

PESEK, Miroslav; KRIVANEK, Miloslav; BEDNAR, Jaroslav

Effect of gamma radiation on some ion exchangers. Jaderna energie  
6 no.3: 267-271 Ag '60.

1. Vojenska akademie A.Zapotockeho, Brno

PESEK, M.; LICHTENBERG, J.

A contribution to surgical treatment of mediastinal tumors. Rozhl.  
chir. 40 no.7:458-467 Jl '61.

1. I a III chirurgicka klinika KU v Praze, prednosta prof dr. J. Pavrovsky.

(MEDIASTINUM neoplasms)

LICHTENBERG, Jar.; PODLAHA, Jiri; BARTOS, Jiri; PESEK, Miroslav

Our experience with implantation of a bifurcate aortofemoropopliteal prosthesis. Rozhl. chir. 40 no.9:587-593 S '61.

1. I chirurgicka klinika prof. dr. J. Pavrovskeho.

(ILIAC ARTERY dis) (FEMORAL ARTERY dis)  
(AORTA surgery) (POPLITEAL ARTERY surgery)

PESEK, M.

SURNAME, Given Name

Country: Czechoslovakia

(10)

Academic Degrees: [not given]

Affiliation:

Source: Prague, Rozhledy v Tuberkulose a v Nemozech Plicnich, Vol XXI, No 6, July 61,  
pp 473-475.

Data: "Unusual Type of Pulmonary Haemoblastoma."

Authors: LICHENBERG, J., presumably First Clinic of Surgery, KU [Karlova universita;  
Charles University] (I. chirurgicka klinika, KU), Prague;  
Director: Prof Dr J. PAVROVSKY.

PESEK, M., [presumably] First Clinic of Surgery, KU, Prague.

MARIK, A., [presumably] TB Department FN 1 [not identified] (Tbc oddeleni, FN I),  
Prague; Director: Dr. J. POLANSKY.

STEJSKAL, J., [presumably] First Institute of Pathological Anatomy, KU [Karlova  
universita; Charles University] (I. patologicko-anatomicky ustav, KU),  
Prague; Director: Prof Dr. B. BEDNAR.

PSEK, M.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation:

Source: Prague, Rozhledy v Tuberkulose a v Nemozech Plicnich, Vol XXI, No 6, July 61,  
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Authors: LICHTENBERG, J., presumably First Clinic of Surgery, KU [Karlova universita;  
Charles University] (I. chirurgicka klinika, KU), Prague;  
Director: Prof Dr J. PILOVSKY.

PSEK, M., [presumably] First Clinic of Surgery, KU, Prague.  
MARIK, A., [presumably] TB Department FN 1 [not identified](Tbc oddeleni, FN 1),  
Prague; Director: Dr. J. POLANSKY.

STEJSKAL, J., [presumably] First Institute of Pathological Anatomy, KU [Karlova  
universita; Charles University](I. patologicko-anatomicky ustav, KU),  
Prague; Director: Prof Dr. B. BRDNAR.

PESEK, MIROSLAV

Distr: LE2:(j)/LE3

*A*  
Effect of  $\gamma$ -radiation on some ion exchangers. Miroslav Pekář, Miloslav Křivánek, and Jaroslav Benčík (A. Zápoček) [Military Acad., Brno, Czech.] Jaderná energetika 26(1-2)(1986).—The cation exchangers studied were: "P extra," a PhOH-CH<sub>2</sub>O condensate with  $\rho$ -CH<sub>3</sub>SO<sub>3</sub>H groups (I); "PN," a condensate of phenol-sulfonic and naphthalene-sulfonic acids with CH<sub>2</sub>O (II); and "S," a sulfonated copolymer of styrene and divinylbenzene (III). In the expt., a 1-g. sample of the air-dried resin in the H form was allowed to swell in H<sub>2</sub>O; then, while covered with H<sub>2</sub>O contg. air, it was irradiated with  $\gamma$ -rays from Co<sup>60</sup> at intensities from near  $5 \times 10^6$  to  $10^8$  rad/hr, for times up to 1500 hrs. After irradiation, the following properties were detd.: poly., or rather the rate of leaching of low-mol.-wt. compds., in 1N H<sub>2</sub>SO<sub>4</sub>; swelling capacity in H<sub>2</sub>O; exchange capacity of strongly acid (SO<sub>3</sub>H) and weakly acid (phenolic OH) groups by batch treatment with NaCl and NaOH soln., resp. The rate of leaching became linear with time of leaching after approx. 300 hrs.; it increased linearly with radiation dose, indicating chain degradation, but the points were scattered. Degradation was indicated also by the linear increase in the swelling capacity of II and III with dose (faster for III), whereas that of I did not change. The exchange capacity of the SO<sub>3</sub>H groups decreased with the dose, slowly for I and II, rapidly for III. The exchange capacity of OH increased with the dose, even for III, which had none initially. The over-all exchange capacity of I and II increased, that of III decreased, with the dose. The radiation intensity had no effect on any of the properties. Direct action of the radiation split off SO<sub>3</sub>H and OH groups, whereas the OH produced by the radiolysis of H<sub>2</sub>O reacted with the resin to give more OH groups. The O<sub>2</sub> present in the H<sub>2</sub>O gave rise to traces of peroxide which disappeared on further irradiation. Only about half of the SO<sub>3</sub>H groups were accounted for as H<sub>2</sub>SO<sub>4</sub> in soln. H. Narcombe

1/JAT/AS  
1/JAT/AM

2

LICHTENBERG, J.; SULCOVA, I.; PESEK, M.

Our experiences with Szibeth's operation in carcinoma of the rectum. Cas. lek. cesk. 98 no.35:1110-1113 28 Aug 59

1. I. chirurgicka klinika EKU v Praze, prednosta prof. dr. J. Pavrovsky  
(RECTUM, neoplasms)

CZECHOSLOVAKIA/General Biology - Individual Development.  
Transplants and Coalescence.

B

Obs Jour : Ref Zhur Biol., No 6, 1959, 23635  
Author : Bartos, Jiri; Pesek, Miroslav, Junger, Ladislav, Klika,  
Eduard  
Inst : -  
Title : Experimental Work on Replacing Dura Mater by Amnion  
Orig Pub : Ceskosl. neurol., 1957, 20, No 4, 233-246

Abstract : The usefulness of amnion for replacement of dura mater in dogs, cats and guinea pigs was determined experimentally. It was established that the amnion, as compared with other substitutes (fibrine film, fibrine foam and fascia) corresponds to a greater degree to the demands placed on those substances. It is more available and withstands sterilization well and it conditions a comparatively small reaction of the surrounding cellular tissue. In the course of 2 months after surgery, its resorption takes place

Card 1/2

- 20 -

CZECHOSLOVAKIA / Human and Animal Morphology (Normal and Pathological). General Problems. S

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12811

Author : Posek, M.

Inst : -

Title : Anatomical and Physiological Characteristics of Foramen Occipitale Magnum.

Orig Pub : Rozhl. chirurg., 1956, 35, No. 11, 691-696

Abstract : In connection with a request of surgeons, the anatomy of the area of the foramen occipitale magnum was described on 20 human specimens. Particular attention was given to the problem of the permeability of the subarachnoid spaces in this area. Practical recommendations for surgical intervention are given.

Chart 1/1

PESEK, Miroslav; LICHTENBERG, Jaroslav; NEUMANN, Jiri

Contribution to the surgical treatment of aortic stenosis. Sborn. lek.  
59 no.7-8:239-243 July 58.

1. I. chirurgicka klinika fakulty vseobecnejo lekarstvi university  
Karlov, prednosta akademik Arnold Jirasek IV. interni klinika fakulty  
vseobecneho lekarstvi university Karlov, prednosta prof. Dr. Bohumil  
Prusik. Doc. Dr M. P., I. chirurgicka klinika, U nemocnice 2, Praha 2.  
(COMMISSUROTOMY  
in aortic stenosis (Cz))

PESEK, Miroslav; METYS, Rene

Contribution to the problem of the so-called solitary pulmonary nodule.  
Sborn. lek. 59 no.7-8:244-248 July 58.

1. I. chirurgicka klinika fakulty vseobecneho lekarstvi UK v Praze,  
prednosta akademik Arnold Jirasek. Rentgenologické oddelení OUNZ v  
Susici, zastupujici prednosta MUDr Rene Metys. Doc. Dr M. P., I.  
chirurgicka klinika, U nemocnice 2, Praha 2.

(LUNGS, radiography  
solitary nodules, differ. diag. (Cz))

PESEK, Rudolf

Report on the 2nd Conference of Rocket Technology and Aeronautics  
in Warsaw. Vestnik CSAV 68 no.5:647-649 '59.

1. Glen korespondent Ceskoslovenske akademie ved.

Z/002/60/000/005/006/006  
A205/A126

AUTHOR: Pešek, Rudolf

TITLE: Congress of the International Astronautical Federation in Stockholm

PERIODICAL: Věstník Československé akademie věd, no. 5, 1960, 637 - 640

TEXT: The XI Congress of the "MAF - Mezinárodní astronautické federace" (International Astronautical Federation) convened on August 15 - 20 (Abstractor's Note: year not given) in Stockholm, Sweden. The congress was attended by 700 delegates of 31 member states of the International Astronautical Federation. The Astronautická komise ČSAV (Astronautical Commission of the Czechoslovak Academy of Science) was represented by Professor, Engineer Doctor R. Pešek, Corresponding Member of the ČSAV, Docent, Doctor V. Guth, Corresponding Member of the SAV (Slovak Academy of Science) and Director of the Ondřejov Observatory, and by Doctor V. Kopal, research worker of the "Ústav práva ČSAV" (Legal Institute of the Czechoslovak Academy of Science). The congress approved the establishment of two new institutions, i. e. the International Astronautical Academy, and the Inter-

Card 1/5

Z/002/60/000/005/006/006

A205/A126

Congress of the International Astronautical...

national Institute for Cosmic-Space Laws. The International Astronautical Academy will incorporate prominent scientists and will have 3 sections: 1) Section for basic science and 2) Section for technical science, each with 60 members and 120 corresponding members, and 3) section for biology with 45 members and 90 corresponding members. So far, 14 members were nominated for the first, 18 for the second, and 14 for the third section. Additional members will be nominated in elections, held in December 1960. Doctor T. v. Kármán was elected President of the Academy, Professor A. Ehmert (FRG) was elected Chairman of the first section, Professor R. Pešek Chairman of the second, and Professor M. Florkin (Belgium) Chairman of the third section. Committees were established for various tasks, including one for publication of the journal "Acta Astronautica", one for awarding of prizes and financial assistance, and a "LIL" (Lunar International Laboratory) which will investigate problems, connected with the installation of a research laboratory on the moon. For the first 3 years, the academy will be financed with \$ 75,000 from the Guggenheim Foundation. The secretariate of the academy will be established in Paris. The International Institute for Cosmic-Space Laws comprises 11 working groups. Czechoslovak jurists Doctor Kopal

Card 2/5

Congress of the International Astronautical... Z/002/60/000/005/006/006  
A205/A126

of the Legal Institute, ČSAV, Doctor Bušák of the "Studijní středisko ministerstva spojů" (Research Center of the Ministry of Communication), and Doctor Potočný of the Legal Department, Charles University, will be members of four groups. The 90 papers, presented at the XI Congress of the International Astronautical Federation, were divided into 10 groups: A - Basic properties of the atmosphere, physical and chemical problems of flight in the atmosphere, special problems of re-entry after cosmic flights. E - Economy and planning of research, development and techniques of cosmic flights. I - Interplanetary space, interplanetary matter, magnetic fields of planets, Van-Alen radiation, etc. M - Cosmic medicine and biology, physiological aspects of life in outer space. N - Navigation, instigation and steering of rockets, communication in cosmic space. P - Contemporary and future methods to propel cosmic vehicles. V - Cosmic vehicles, their design, material, power source, assembly, etc. T - Trajectories of cosmic flights with and without drive, and of flights in planetary atmosphere. S - Description of cosmic probes, satellites and their use (Saturn rockets, satellites Pioneer V, Explorer VI, Tiros and Discoverer). X - Problems which could not be incorporated into one of the preceding groups. Czechoslovak scientists contributed with 2 papers to problems dealt with in group ✓

Card 3/5

z/002/60/000/005/006/006  
A205/A126 ✓

Congress of the International Astronautical...

X: A report on "Phenomena at the Lunik II impact on the Moon" by Docent, Doctor F. Link was read for the absent author by Docent Doctor V. Guth, who also read his own paper on "Computation of the impact point of the Lunik II carrier rocket". Five Soviet papers dealt with measurements made by Soviet satellites and cosmic probes, and A. A. Mikhaylov reported on the far-side of the moon. Two symposia and two colloquies were also conducted during the congress. The colloquy on cosmic-space laws dealt with the international inspection of cosmic space and damages caused by cosmic vehicles to third parties on the earth surface. Doctor Kopal (CSSR) read a critical report on legal opinions adopted by Western countries and illustrated the stand-point of Soviet-bloc lawyers. The second colloquy dealt with astrodynamics. The symposium on space medicine dealt with the system man-engine in cosmic vehicles; telemeasuring of physiological data; biological effects of cosmic radiation; and biodynamic problems of crews at landing and takeoff on the moon. The second symposium dealt with small rocket probes. Several instruction films were shown by US participants, Professor Itokawa (Japan) showed a film on "Rockets Kappa 7 and Kappa 8", and a Czechoslovak film was shown under the English title "Passport to Space". An exhibition, arranged

Card 4/5

Congress of the International Astronautical...

Z/002/60/000/005/006/006  
A205/A126

during the congress, showed Swedish "FACIT AB" and "WEGEMATIC 1000" electronic computers, a model of the "AURORA HR-1" rocket, US rocket probes "ARCAS", "FFAR", "DEACON", "HASP" and "ASP", a model of the "TIROS" meteorological satellite and a mockup of the recovered "DISCOVERER" capsule. The "AVCO" enterprise exhibited photographs and diagrams of an electric-arc rocket engine which produces a traction of 0.35 kg for 47 hours, with helium as propellant, having a specific impulse of 1,000 sec., and an input of 30 kw. Czechoslovak lawyer Doctor Kopal was elected chairman of a committee for billing a new constitution of the International Astronautical Federation. Academician Sedov was re-elected President of the International Astronautical Federation, Professor R. Pešek was elected one of the five vice presidents. The next congress will be held in New York. At the end of the congress, a press conference was called in by Academician Sedov, who announced, that the USSR launched a second cosmic vehicle with test animals. Czechoslovak participants conducted a field trip to the Saltsjöbaden observatory.

ASSOCIATION: ČSAV, Corresponding Member

Card 5/5

174060

2<sup>a</sup>593  
Z/002/01/000/004/001/001  
D005/D102

AUTHOR:

Pesek, Rudolf, Corresponding Member of the Czechoslovak AS

TITLE:

Man in space

PERIODICAL: Československá akademie věd. Věstník, no. 4, 1961, 447-457

TEXT: This is a review of the Soviet space program starting with the launching of an improved, multistage rocket towards a Pacific ocean target area on January 20, 1960, until the first manned space flight. It further briefly compares the Soviet manned space flight with A. B. Shepard's flight and also deals with controversy whether space ships for space exploration should be manned or just equipped with automatic instruments. The Soviet space program has included the launching of the following space ships:

Card 1/5

X

Man in space

28593  
 2/02/61/001/1451  
 D005/D102

	Date of launching	Weight in kg	Inclination of orbiting plane	Perigee km	Apogee km	Orbiting time in min.
Space ship I	15. 5.60	4,540	65°00'	312	369	91.3
Space ship II	19. 8.60	4,600	64°54'	306	339	90.9
Space ship III	1.12.60	4,500	64°58'	180	249	84.47
Space ship IV	9. 3.61	4,700	64°56'	183	248.8	
Space ship V	25. 3.61	4,695	64°54'	178	247	88.42
Vostok	12. 4.61	4,725	65°04'	181	327	43..

The purpose of these launchings was to test the control systems and to verify the functioning of safety devices. Space ship I went astray due to the

Card 2/ 5

Man in space

28593

Z/002/61/000/004/001/001  
D005/D102

malfunction of an attitude rocket. Space ship II solved all the basic problems of manned space flight. V. P. Perin, member of the Academy of Medical Sciences, USSR, characterized this space ship as Noah's ark of the 20th century since it carried a large number of test animals. The space ship carried a container with test animals, instruments measuring cosmic radiation and noise, two TV cameras recording apparatus, and an automatic re-entry and landing system. On August 11, 1961, after 17 orbits, the command for re-entry was given. The capsule was braked on an 11,000-km long stretch with deceleration never exceeding 10 G. Subsequently a parachute was deployed and the capsule descended at a speed of 10 m/sec. To test an alternate landing method, most of the animals were catapulted from the capsule at altitudes ranging from 7-3 km following a barometric impulse and descended by parachute at a speed of 6-8 m/sec. The capsule landed less than 11 km from the predetermined landing area and was quickly discovered by the signals automatically transmitted by a special transmitter inside the capsule. The subsequent launchings were to prove the reliability of the space ship and all its systems. The first manned space ship "Vostok" was launched from

Card 3/5

Man in space

28593  
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D005/D102

the Baykonur ( $47^{\circ}$ N- $65^{\circ}$ E) launching site with 27-year old Major Yuriy Alexeyevich Gagarin on board. The "Vostok" was put into orbit by a six-engine multistage rocket developing an estimated thrust of 500 tons. The equipment of the capsule was apparently similar to that of space ship II. The capsule atmosphere was automatically controlled by a special system which simultaneously checked the cosmonaut's reactions. Devices installed on board the ship enabled the astronaut to determine the ship's position in orbit and communicate by voice and code with the ground. After one hour and 48 minutes, the space ship landed in the vicinity of Smelevka village in the Saratovskaya Oblast. Gagarin was awarded the K. Tsiolkovski gold medal which was presented to him by Academician A. N. Nesmeyanov, former president of the AS. USSR. The manned space flight proved that acceleration and deceleration of about 10 G caused less difficulties than expected. The noise and heat did not significantly affect the organism. The cabin temperature was maintained at  $19\text{--}22^{\circ}\text{C}$  and the relative humidity at 62-71%. Gagarin's breathing and pulse rates were recorded before the launching, during various phases of the flight and after the landing. A medical check carried out during and after the flight did not show any extraordinary reactions and disorders. The flight

Card 4/5

28593  
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D005/D102

Man in space

has shown that man can not only endure the space flight conditions but also perform the entrusted tasks and functions. The faculty to work was not impaired and coordination and accuracy of movements were not affected. The flight has also shown that weightlessness does not cause any difficulties, on the contrary, it provokes a pleasant feeling. However, it still remains to be learned how the human organism will react to weightlessness of long duration. Comparing Gagarin's flight with that of A. S. Shepard, the author points to the great qualitative difference between the Soviet and US accomplishments and expresses his opinion that the latter flight was only a preparatory stage of a manned space flight. As for the controversy in expert circles, whether a space ship designed for space exploration should be manned or provided with automatic equipment only, the author inclines to the conclusion that the decisive factor of successful space exploration is the presence of man on board, especially in longer flights. Man can substantially increase the efficiency of observations and carry out observations not foreseen at the time the automatic equipment was designed. The fact that man can endure space-flight conditions without any significant impairment of his faculty to work will certainly have a considerable influence on future development and space research program. There are 2 figures and 1 table.

Card 5/5

PESHEK, R. [Pesek, R.], prof.

Astronautics in Czechoslovakia. Nauka i tekhnika mladezhi 14 no. 5:14-15  
Mys '62.

PESEK, Rudolf; KOPAL, Vladimir

Thirteenth International Astronautical Congress in Varna. *Vestnik  
CSAV* 72 no.1:159-162 '63.

1. Clen korespondent Ceskoslovenske akademie ved (for Pesek).

L 41510-65 ARG/B30-2/ENG(j)/EMT(d)/FBD/FSS-2/ENG(r)/EMT(1)/FBO/EMP(c) 40  
EMT(e)/FS(v)-3/EMP(c)/ECC(k)-2/ENG(a)-2/EMT(i)/EMP(f)/ENG(v)/EMP(c)/EMP(v)/EMT(1)/  
EMP(1)/EMT(j)/T-2/ENG(a)-2/EMP(h)/EPA(bb)-2/ECC(c)-2/EED-2/ENG(e)/FCS(k)/EMP(b)/  
AMMO4110 PL-4/P-4/PL-4/PL-4/Pn-4/ ECCC EXCITATION P1-4/PL-4/Pn-4/PL-4/PL-4/ /G3  
Po-4/Po-5/Po-4/Pn-4/r-4 IJP(c) AST/PT/MM/DD/RM/GM/BC/VH  
Barvir, Miroslav, (Engineer); Denes, Konrad, (Professor, Doctor); Doucka, Jiri, /, 191  
(Doctor); Hull, Ivo, (Graduate in Philosophy); Ceplech, Zdenek, (Candidate of B41  
Physical and Mathematical Sciences); Cech, Milan, (Doctor); Cech, Vladimir, /, (Doctor);  
Dvorak, Antonin, (Candidate of Medical Sciences); Dvorak, Josef, (Doctor);  
Guth, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Horak, Zdenek,  
(Doctor of Physical and Mathematical Sciences, Corresponding Member of the  
Czechoslovak Academy of Sciences, Professor, Doctor); Hospedar, Jan, (Doctor of  
Physical and Mathematical Sciences, Doctor); Kleczek, Jozef, (Doctor); Klest,  
Pavl, (Candidate of Physical and Mathematical Sciences); Kralovsky, Milen; Koml,  
Vladimir (Doctor); Korecky, Miloslav, (Candidate of Legal Sciences); Krivsky,  
Jan, (Candidate of Physical and Mathematical Sciences); Kviz, Zdenek, (Can-  
didate of Physical and Mathematical Sciences); Ladvina, Milen, (Engineer); Malcik,  
Vladimir, (Doctor); Morevek, Milen, (Candidate of Medical Sciences); Mrazek,  
Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of  
Technical Sciences); Neuzil, Judek, (Doctor); Novotny, Zdenek, (Candidate of  
Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor); Pernagr, Jaroslav,  
(Doctor, Candidate of Physical and Mathematical Sciences); Pecek, Rudolf, Professor,  
Doctor, Engineer); Pihl, Miloslav, (Doctor of Technical Sciences, Corresponding  
member of the Czechoslovak Academy of Sciences); Plavec, Miroslav, (Doctor);  
Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

Card 1/3

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L 41519-65  
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14

Ruml, Vladimir, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schnal, Ladislav; Stvernak, Jiri, (Doctor); Sventek, Zdenek, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tytl, Vaclav, (Docent, Engineer); Ulrich, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicek, Boris, (Candidate of Physical and Mathematical Sciences, Doctor); Vanysek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlascak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Vodn, Miloslav, (Engineer)

Principles of astronautics (Zaklady kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile 15

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

TABLE OF CONTENTS:

Card 2/8

PESEK, Z., inz. (Prague)

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sheets. Strojirnebuli 14 no. 9; 692-696. S-16A.

PESEK Z.

Lecení zastaralých luxací poloměsícitých kostí ruky. /Treatment of old dislocations of semi-lunar bone/ Voj. zdrav. listy 19:9-10 Sept-Oct 50 p. 226-9.

1. Of the Orthopedic Department of the State Faculty Hospital in Pilsen (Head — Docent Dusan Polivka, M.D.).  
CWL Vol. 20 No. 2 Feb 1951

PESEK, Zdenek, MUDr.

Spontaneous para-articular ankylosis in tuberculous coxitis.  
Acta chir. orthop. traum. cech. 22 no.6:219-222 Nov 55.

1. Z orthopedickeho oddeleni KUNZ Plzen, prednosta doc. Dr.  
Polivka, a z lecebny pro kostni tuberkulosu v Kasperskych  
Horach.

(TUBERCULOSIS, OSTEOARTICULAR,  
coxitis, with spontaneous para-articular ankylosis.)  
(HIP, diseases,  
ankylosis, para-articular, in tuberc. coxitis.)

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2:103-104 Feb 56.

1. Z Orthopedickeho Oddeleni KUNZ Plzen, prednosta doc. Dr.  
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(Cz))

(OUT-PATIENT SERVICES

in Czecho., orthopedic. (Cz))

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(EOSINOPHILIC GRANULOMA, in inf. & child  
differ. diag. from osteoarticular tuberc. (Cz))  
(TUBERCULOSIS, OSTEOARTICULAR, in inf. & child  
differ. diag. from eosinophilic granuloma (Cz))

PESEK, Z.; KIKUS, M., I.

... orthopedist and rehabilitation. (Experiences from the field).  
Acta chir. orthop. traum. Cech. 32 no.4:345-347 Ag 1958.

.. Rehabilitaci oadeleci Obvodniho ustavu narodniho zdravi v  
Kralovech (vejici MUDr. Z. Pesek).

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On the differential diagnosis of tuberculosis of the knee.  
Acta chir. orthop. traum. cech. 30 no.4:315-328 Ag '63.

1. Ortopedické oddelení v Sušici a lečebna kostní tuberkulózy v  
Kasperských Horách, vedoucí MUDr. Z. Pešek.

(TUBERCULOSIS, OSTEOARTICULAR) (KNEE)  
(SYNOVITIS) (ARTHRITIS, RHEUMATOID)  
(KNEE INJURIES) (DIAGNOSIS, DIFFERENTIAL)  
(SUDECK'S ATROPHY)

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Anterior arthrodesis of the knee. Acta chir. orthop. trauma.  
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(KNEE wds & inj.)

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Regenerates of the hip joint in the treatment of tuberculous coxitis  
with the preservation of mobility. Acta chir. orthop. trauma. Cech.  
28 no.6:519-525 D '61.

1. OUNZ Klatovy Ortopedické oddelení v Sušici, lečebna kostní tbc  
v Kasperských Horach, predn. MUDr. Zdenek Pešek.  
(HIP dis) (TUBERCULOSIS OSTEOARTICULAR surg)

PESEK, Zdenek; AMBLER, Miroslav

Advantages of clinical care in the treatment of luxation of the hip joint immediately after birth. Acta chir. orthop. traum. cech. 27 no.1:34-35 F '60

1. Ortopedické oddelení OUNZ Sušice, primář MUDr. Zdenek Pesek.  
(HIP fract. & disloc.)

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orthop. traum. czech. 24 no.1:49-55 Jan 57.

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(EOSINOPHILIC GRANULOMA, in inf. & child  
differ. diag. from osteoarticular tuberc. (Cz))  
(TUBERCULOSIS, OSTEOARTICULAR, in inf. & child  
differ. diag. from eosinophilic granuloma (Cz))

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2391. PEŠEK Z. "Grafické hodnocení průběhu kostní tuberkulosy. Graphic e-valuation of the course of skeletal tuberculosis ROZHL. TUBERK. 1956, 16/7 (342-350) Graphs 4 Tables 1 Illus. 1 A method using graphs for the purpose of recording the course of bone and joint tb is described. The graphs make possible a rapid and comprehensive evaluation of the disease and its treatment at any time during institutional therapy. Blumberg - Jevičko (XV, 9°)

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Efficient diagram of grinding and classification of microsize  
powders. stek. i fer. 1 no.7:21-25 Jl '52. (1952)

1. Moskovskiy stekol'nyy zav. d.  
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PESELEV, V.S.; NIPONTOVA, Ye.S.

Use of synthetic polymers in the manufacture of polishers. Stek.  
i ker. 15 no.4:5-7 Ap '58. (MIRA 11:5)  
(Grinding and polishing) (Polymers and polymerization)

PESAL'NIK, G.Ya.

Diet in pulmonary tuberculosis in various stages of compensation  
[with summary in French]. Probl.tub. 35 no.7:86-92 '57.

(MIRA 11:2)

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bol'nitsy (glavnnyy vrach - prof. V.L. Mynis)

(TUBERCULOSIS, PULMONARY, ther.

diet in various stages of compensation)

(DIETS, in various dis.

tuberc., pulm., in various stages of compensation)

PASEL'NIK, G.Ya. (Moskva)

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KARPOV, N.A., kand.tekhn.nauk; PESEL'NIK, M.S., inzh.; SHNSTOPALOV, V.I.

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no.178: 35-57 (MIRA 13:4)  
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PESBL'NIK, M.S., insh.

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(Power tools)

1. PESEL'NIK, V., Eng.
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  4. Roofs
  7. Durable roof from shaped steel sheets, Zhil. -kem. knoz. 2, No. 17, 1952.
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9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

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[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.1. Sec.V. ch.3. [Concrete with binorganic binders and aggregates (SNiP I-V.3-62)] Betony na neorganicheskikh vliakhushchikh i zapolniteliakh (SNiP I-V. 3-62). 1963. 14 p. Pt.1. Sec.V. ch.9. [Ceramic materials and products (SNiP I-V. 9-62)] Keramicheskie materialy i izdelia (SNiP I-V. 9-62. 20 p. (MIRA 16:6)

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LEYKIN, A.S., kand.tekhn.nauk; PESEL'NIK, V.Ye., kand.tekhn.nauk

Protective coatings for air-entrained silicate slabs of exterior walls.  
Stori. mat. 9 no.2:15-16 F #63. (MIRA 16:2)  
(Sand-lime products) (Protective coatings) (Walls)

PESEL'NIK, V. Ye

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(Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 18, 1956,

PUBLIKO, A.

Life of piston rings. Avt. transp. 36 no. 2:11-12 F '58. (MIRA 11:2)  
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PESENKO, A.; CHEREVINICHENKO, P.

Life of the M-21 engines. Avt.transp. 43 no.5:30-32 My 1965.  
(MIRA 18:6)

1. Rostovskoye oblastnoye avtoupravleniye.

PESENKO, A., kand.tekhn.nauk; ZHDANOV, A., kand.tekhn.nauk; MISHKOVICH, I.,  
kand.tekhn.nauk

An engine can work longer. NTU 4 no.1:48-50 Ja '62.  
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1. Rostovskiy institut inzhenerov zheleznodorozhного transporta.  
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CHEREDNICHENKO, P.; PESENKO, A.

*Durability of piston rings. Avt. transp. 42 no. 5:17-18 My '64.  
(MIRA 17:5)*

MAL'TSEV, I.; PESENKO, A.; KUCHERENKO, V.

Brigade increases labor productivity. Avt. transp. 41 no.6:  
8-9 Je '63. (MIRA 16:8)

MAL'TSEV, I.; PESENKO, A.

Through Czechoslovakia in a motorbus. Avt.transp. 38 no.10:57  
O '60. (MIRA 13:10)

1. Predsedatel' Rostovskogo obkoma profsoyuza rabotnikov svyazi,  
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RESENKO, A., inzhener (Rostov-na-Donu).

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(MLRA 10:1)

(Automobiles--Maintenance and repair)

PESENKO, A. (Eng.)

User (600)

Wrote about the railroad car Engine "ID-1"

Soviet Source: P: Tekhnika Molodezhi; Moskva; February 1951.

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 105035. Unclassified.

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No. 25, 1956. Moscow

KOTENKO, A.N.; PRSENNKO, A.V.; PUSHKIN, P.I., redakter; KANDYKIN, A.Ye.,  
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[Re-equipping motor switching locomotives and railroad meter cars  
to operate on liquid gas] Pereezdorudovanie metlovozov i avtodesezin  
dlia raboty na sushishennom gaze. Moskva, Gos.transp.zhel.-der.isd-vo  
1952. 64 p. [Microfilm] (MIRA 9:6)  
(Locomotives) (Railroad metercars)

MAL'TSEV, M.; PESENKO, I.; FOMENKO, V.

Today it is an achievement of one brigade, and tomorrow of the  
whole unit. Avt.transp. 40 no.9:9-10 S '62. (MIRA 15:9)  
(Rostov-on-Don—Taxicabs—Maintenance and repair)

24.4.55

S/TP/EM/000/01/CIA/1240  
EO81/Z141

AUTHORS: Pesennikova, N.K. and Sazharov, I.B. (Moscow)

TITLE: Fundamental Frequency of Natural Vibrations of Ring Shaped Plates with Cylindrical Anisotropy

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr. 1, pp 134-136 (USSR)

ABSTRACT: The known equation (1) for axially symmetric vibration of a circular plate with cylindrical anisotropy is

$$\frac{\beta^4 w}{\beta^4 r^4} + \frac{2}{\left(\frac{r}{a}\right)^3} \frac{\beta^3 w}{\beta^3 r^3} - D \frac{1}{r^2} \frac{\beta^2 w}{\beta^2 r^2} + D \frac{1}{r^3} \frac{\beta w}{\beta r} = - \frac{m b^4}{D_1} \frac{\beta^2 w}{\beta r^2} \quad \left( D = \frac{D_2}{D_1} \right) \quad (1)$$

The notation is as follows:  $D_1$ ,  $D_2$  are the plate stiffnesses in bending in the radial and tangential directions;  $\nu_1$ ,  $\nu_2$  are the principal Poisson's ratios;  $m$  is the mass per unit area of the plate;  $a$  and  $r$  are the internal and external boundary radii of the plate;  $\omega$  is the frequency of vibration of the plate;

Card  
1/10

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EO31/EL41

Fundamental Frequency of Natural Vibrations of Ring Shaped Plate  
with Cylindrical Anisotropy

$w(\xi, t)$  is the deflection of the middle plane of the plate;  $\xi = r/t$  is the polar coordinate, referred to the radius of the external boundary of the plate.

Boundary conditions:

(a) External boundary clamped, internal boundary free of load

$$w = 0, \quad \left(\frac{\partial w}{\partial \xi}\right)_r = 0 \quad \text{for } \xi = 1$$

$$M = -D_1 \frac{1}{b^2} \left( \frac{\partial^2 w}{\partial \xi^2} + \kappa_2 \frac{1}{\xi} \frac{\partial w}{\partial \xi} \right) = 0 \quad \text{for } \xi = \frac{r}{t} = a$$

$$Q = -D_1 \frac{1}{b^2} \left( \frac{\partial^3 w}{\partial \xi^3} + \frac{1}{\xi} \frac{\partial^2 w}{\partial \xi^2} + D \frac{1}{\xi^2} \frac{\partial w}{\partial \xi} \right) = 0$$

(b) External boundary hinged supported, internal boundary free of load

Card  
2/10

$$w = 0, \quad M = -D_1 \frac{1}{b^2} \left( \frac{\partial^2 w}{\partial \xi^2} + \kappa_2 \frac{1}{\xi} \frac{\partial w}{\partial \xi} \right) = 0 \quad \text{for } \xi = \frac{r}{t} = a$$

SAC/DO/3/000/DO/001  
E081/E141

Fundamental Frequency of Natural Vibrations of Ring Shaped Plate  
with Cylindrical Anisotropy

$$M = -D_1 \frac{1}{b^2} \left( \frac{\partial^2 w}{\partial \xi^2} + \nabla_\xi \cdot \left( \frac{\partial w}{\partial \xi} \right) \right) = 0, \quad \text{for } \xi = \frac{r}{a} < 1$$

$$Q = -D_1 \frac{1}{b^3} \left( \frac{\partial^3 w}{\partial \xi^3} + \frac{1}{\xi} \frac{\partial^2 w}{\partial \xi^2} - D \frac{\partial^2}{\partial \xi^2} \frac{\partial w}{\partial \xi} \right) = 0$$

Assuming harmonic vibrations, i.e.  $w(\xi, t) = W(\xi) \sin \omega t$ , Eq (1) is transformed to

$$\frac{d^4 W}{d\xi^4} + \frac{2}{\xi} \frac{d^3 W}{d\xi^3} - \frac{E}{\xi^2} \frac{d^2 W}{d\xi^2} + \frac{E}{\xi^3} \frac{dW}{d\xi} - \rho \omega^2 W = 0 \quad (1)$$

$$\left( \omega^2 = \frac{m^2}{D_1} \omega_0^2 \right)$$

To find the frequency of natural vibration of the plate under the given boundary conditions, the Bubnov-Galerkin method is used, taking as coordinate functions linear combinations of the solution to the problem of the vibration of an isotropic ring-shaped plate, depending

Card  
3/10

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on the parameter  $\lambda_1(n=1,2)$ . The choice of  $\lambda_1(n=1,2)$  is subjected to the requirement of satisfying the boundary conditions which gives an equation in the form of a fourth order determinant for finding  $\lambda_1(n=1,2)$ . We then use the property of proportionality of arbitrary constants corresponding to the minors of this determinant. In the case of boundary condition at  $r_2$ ,

$$W_1(\xi) = c_1 [ \Delta_{11} J_0(\lambda_1 \xi) + \Delta_{12} Y_0(\lambda_1 \xi) + \Delta_{13} I_0(\lambda_1 \xi) + \Delta_{14} K_0(\lambda_1 \xi) ]$$

where

$$\Delta_{11} = \begin{vmatrix} Y_0(\lambda_1) & J_0(\lambda_1) & K_0(\lambda_1) \\ -Y_1(\lambda_1) & J_1(\lambda_1) & -K_1(\lambda_1) \\ -Y_{01}(\lambda_1, \alpha) & I_{01}(\lambda_1, \alpha) & K_{01}(\lambda_1, \alpha) \end{vmatrix}$$

Card  
4/10

$$\Delta_{12} = \begin{vmatrix} J_0(\lambda_1) & I_0(\lambda_1) & K_0(\lambda_1) \\ -J_1(\lambda_1) & I_1(\lambda_1) & -K_1(\lambda_1) \\ -J_{01}(\lambda_1, \alpha) & I_{01}(\lambda_1, \alpha) & K_{01}(\lambda_1, \alpha) \end{vmatrix}$$